XMC-U150

SERVICE MANUAL

US Model
Canadian Model
AEP Model
E Model

SPECIFICATIONS

Built-in amplifier

Power amplifier section

Maximum power output	30 W × 4 (at 4 ohms)* * Measured at 14.4 V
Rated outputs	30 watts per channel
Speaker impedance	4 – 8 Ω

Pre-amplifier section

Tone control	Bass ±10 dB at 100 Hz Treble ±10 dB at 10 kHz

Hideaway unit/Remote commander/ Display unit

Dimensions	
Hideaway unit:	Approx. 178 × 36 × 175 mm (w/h/d)
Remote commander:	Approx. 66 × 108 × 20 mm (w/h/d)
Display unit:	Approx. 120 × 37 × 18.5 mm (w/h/d)
Mass	
Hideaway unit:	Approx. 1 kg
Remote commander:	Approx. 55 g not incl. batteries
Display unit:	Approx. 115 g

Supplied accessories

Mounting hardware (1)
R6 (size AA) batteries (2)
Connecting cords (1 set)

Design and specifications subject to change without notice.

COMPACT DISC CONTROL AMPLIFIER

SONY®

Maintenance

Fuse Replacement

If the fuse blows, check the power connection and replace the fuse. If the fuse blows again after replacement, there may be an internal malfunction. In this case, consult your nearest Sony dealer.

Warning

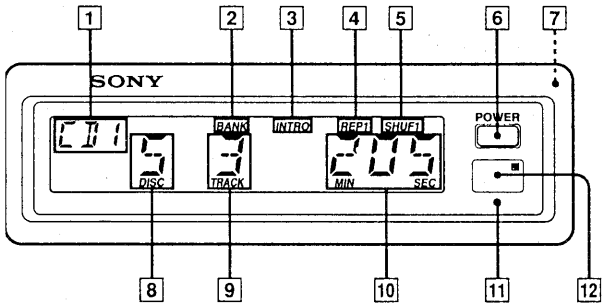
Use the specified amperage fuse.
Use of a higher amperage fuse may cause serious damage.

TABLE OF CONTENTS

Section	*Title*	*Page*
	Specifications	1
1.	**GENERAL**	
	Location and Function of Controls	3
	Switches Requiring Initial Settings	5
	Setting the Clock	5
	Listening to the CD Play	6
	Playing in Various Modes	6
	Displaying the Title of Each Disc	8
	Playing Selected Tracks on a Disc	10
	Listening to Your Existing Car Audio	11
	Installation	12
	Connections	13
2.	**EXPLANATION OF IC TERMINALS**	15
3.	**BLOCK DIAGRAM**	17
4.	**DIAGRAMS**	
	4-1. Printed Wiring Boards	19
	4-2. Schematic Diagrams	23
5.	**EXPLODED VIEWS**	
	5-1. Hideaway Unit	27
	5-2. Display Unit	28
6.	**ELECTRICAL PARTS LIST**	29

Location and Function of Controls

Display Unit

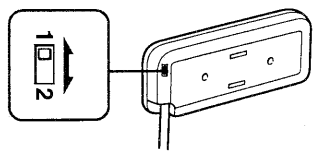


Refer to the pages in ● for details.

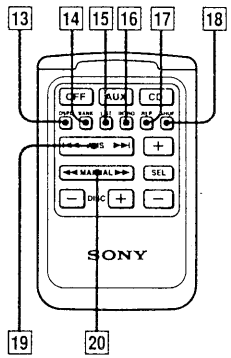
1 **CD (CD changer number) indication** ⑩
2 **BANK (bank function) indication** ⑲
3 **INTRO (intro scan) indication** ⑱
4 **REP (repeat play) indication** ⑫
5 **SHUF (shuffle play) indication** ⑪
6 **POWER switch**
Press to turn on and off the set.
7 **Illumination color select switch (rear)**
For changing the color of the display illumination (amber and green).
8 **DISC (disc number) indication** ⑩
9 **TRACK (track number) indication** ⑩
10 **Elapsed playing time indication** ⑩
11 **Reset button**
Press this button with a ball-point pen or a similar object when the operation buttons fail to function.
12 **Infrared receptor for the remote commander**

Changing the Color of Illumination

Use the illumination color select switch to choose the color of the illumination of the display window between green and amber to match the color of illumination of your car's instrument panel.



Remote Commander



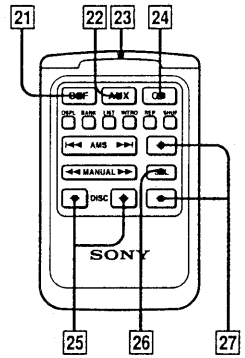
13 **DSPL (display change/time set) button** ⑨
Each time the button is pressed during CD play, the display mode changes cyclically as follows:

→ Disc number, track number and elapsed playing time display mode → Title display mode* → Clock display mode →

* It is necessary to put titles onto the discs in advance. See page 14 for details.
If the title of a disc is not registered, "--------" will come on the display window and the set will enter the elapsed playing time display mode.

14 **BANK (bank function) button** ⑲
15 **LIST (custom file mode select) button** ⑭⑯⑱
16 **INTRO (intro scan) button** ⑱
17 **REP (repeat play) button** ⑫
18 **SHUF (shuffle play) button** ⑪
19 **AMS (automatic music sensor) button**
Press either side of the button once during CD play to search the beginning of a track (AMS function).
▶▶| side: To locate the beginning of the next track
|◀◀ side: To locate the beginning of the currently playing track
If you keep the button pressed, the beginnings of either the succeeding or the previous tracks will be located. However, if the beginning or the end of the disc is reached, you will not be able to go any further.
20 **MANUAL (manual search) button**
Press and hold either side of the button during CD play to search a desired point of a track.
▶▶ side: To fast forward
◀◀ side: To fast reverse
The elapsed playing time of the track will be displayed on the display window during the manual search.

This section is extracted from instruction manual.



21 OFF button
Press to turn off the set.

22 AUX (auxiliary mode) button ⓴

23 Infrared emitter

24 CD (CD play/CD changer select) button ⓫
When two or more CD changers are connected, press this button to select a desired CD changer. Every time you press the button, the CD changer number on the display window will change.

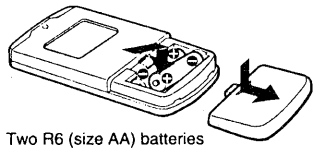
25 – DISC + (disc select) buttons
Press either the – or + button during CD play to search a desired disc quickly.
– button: To search the previous disc number
+ button: To search the succeeding disc number
You can search a desired disc by displaying the titles of the discs registered with the custom file function. See page 14 for details.

26 SEL (control mode select/character set) button
Press to select the desired control mode: BAS (bass), TRE (treble), BAL (balance), FAD (fader) or VOL (volume)

27 ⊟⊞ (volume/bass/treble/balance/fader/character select) buttons
These buttons normally function as the volume control. To adjust other modes, press ⊟ or ⊞ button within three seconds after selecting the desired control mode with the SEL button. The control mode automatically goes back to the volume control mode in three seconds.

Display window	Control mode	Press ⊟	Press ⊞
BAS	Bass control	For less bass	For more bass
TRE	Treble control	For less treble	For more treble
BAL	Balance control	To decrease the right-speakers' volume	To decrease the left-speakers' volume
FAD	Fader control	To decrease the rear-speakers' volume	To decrease the front-speakers' volume
VOL	Volume control	For less volume	For more volume

Installing the Batteries



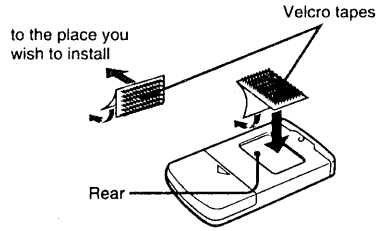
Two R6 (size AA) batteries

Battery life
When the batteries become weak, you will not be able to operate the set with the remote commander. Battery life is approx. six months although it depends on the way of use.

Notes on batteries
To avoid damage from battery leakage and subsequent corrosion:
— insert the batteries with the correct polarity
— do not use an old battery with a new one, or different types of batteries together
— remove the batteries when you do not use the set for a long period of time
— do not charge the batteries.

If any battery leakage occurs, replace the batteries with new ones after cleaning the battery compartment.

Installing the Remote Commander



Install the remote commander with velcro tapes in a desired place.

Notes
- Do not install or leave the remote commander in a location near any heat sources, or in a place subject to direct sunlight (especially on the dashboard in summer etc.).
- When you park the car in direct sunlight, detach the remote commander and place it in a location not subject to direct sunlight such as the glove-box.
- Before installing the remote commander, be sure to confirm whether you can remote control the set from the place you intend to install.
- Before attaching the velcro tapes, clean the surface.

Switches Requiring Initial Settings

POWER SELECT Switch

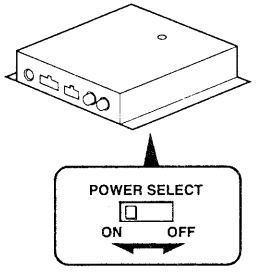
If your car's ignition key panel has the ACC (accessory) position

The POWER SELECT switch located on the bottom of the hideaway unit is factory-set to the ON position so that the display on the display window will come on when the ignition key of your car is turned.

If your car's ignition key panel has no ACC (accessory) position

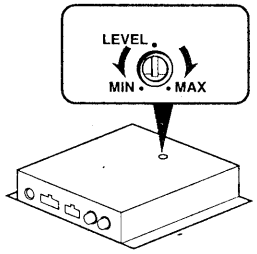
The original setting of the POWER SELECT switch may cause some car battery wear. To avoid this from happening, set the POWER SELECT switch to the OFF position*. When the ignition key is turned to the OFF position, the display on the display window will go off. Whenever you change the setting of the POWER SELECT switch, be sure to press the reset button on the display unit.

* When the POWER SELECT switch is set to the OFF position, you will not be able to start the CD play with the remote commander while the set is in the off mode, that is to say when there is no display on the display window. Therefore, press the POWER switch on the display unit before using the remote commander.

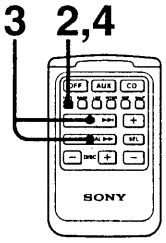


LEVEL (auxiliary input level adjust) Control

With this control, you can adjust the input level of the auxiliary source (speaker outputs of your car audio). After the connection has been completed, turn up the volume of your car audio until just before the sound becomes distorted. Then adjust the LEVEL control with a screw driver so that the volume level of the car audio becomes the same as that of the CD changer.



Setting the Clock



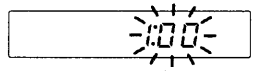
The clock has a 12-hour digital indication.

For example, set it to 10:08.

1 **Turn the ignition key to the ON position.**

2 **Press the DSPL button for more than two seconds.**

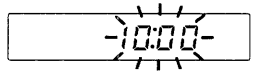
DSPL



The indication starts flashing.

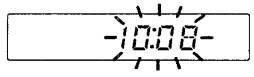
3 **Press** ⏮ AMS ⏭ **to set the hour digits.**

(to go back) (to go forward)



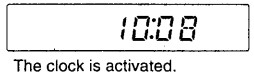
Press ◀◀ MANUAL ▶▶ **to set the minute digits.**

(to go back) (to go forward)



4 **Press the DSPL button.**

DSPL

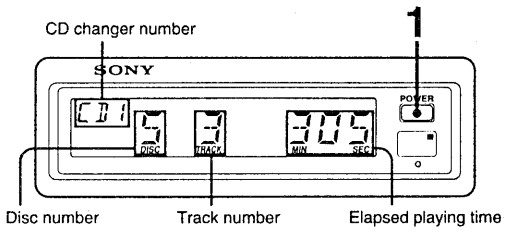


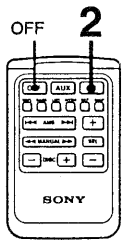
The clock is activated.

Note

When the POWER SELECT switch on the hideaway unit is set to the "OFF" position, the clock display will not come on the display window even if the ignition of your car is turned on. In such a case, press the POWER switch of the display unit and play a disc. Then press the DSPL button of the remote commander twice to have the clock display on the display window and follow steps 2 to 4.

Listening to the CD Play





1 **Press the POWER switch on the display unit.**

POWER

2 **Press the CD button on the remote commander.**

CD

The CD play will start.

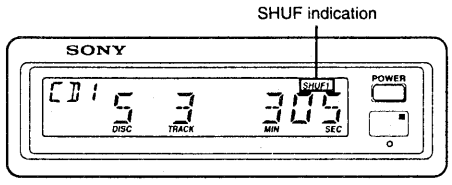
If the set is in the normal playing mode, after the end of a disc, the disc with the next number shown on the display window will automatically be played. If two or more CD changers are connected, after the end of the last disc in the first changer, the first disc in the CD changer with the next number shown will be played. The order of the CD play can be rearranged by changing the playing modes. See "Playing in Various Modes" for details. (Page 11)

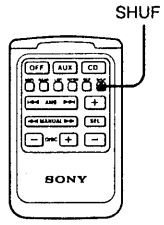
Stopping the CD play

Press either the POWER switch on the display unit or the OFF button on the remote commander.
To resume the CD play, press the POWER switch on the display unit or the CD button on the remote commander.

Note
If you turn off the ignition of your car without stopping the CD play, it will automatically resume the CD play from where it was stopped the next time you turn on the ignition.

Playing in Various Modes





Playing the Discs Randomly
— Shuffle Play Functions

Playing the tracks on the currently selected disc randomly — Disc shuffle

Press SHUF to get the "SHUF 1" indication during the CD play.

When all the tracks on a disc have been played, it will go on to the next disc.

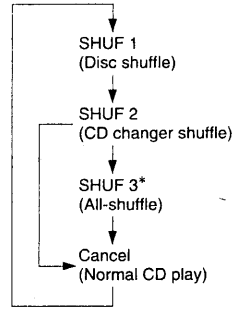
Playing every track on every disc in the currently selected CD changer randomly — CD changer shuffle

Press SHUF to get the "SHUF 2" indication during the CD play.

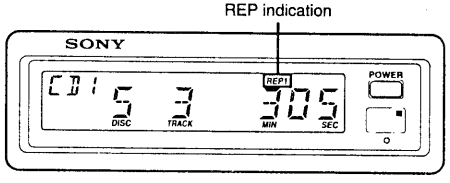
Playing every track on every disc in all CD changers connected randomly — All shuffle (when two or more CD changers are connected)

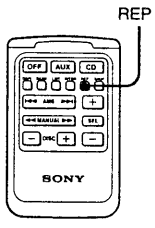
Press SHUF to get the "SHUF 3" indication during the CD play.

The function of the SHUF button changes cyclically as follows:



* All-shuffle play (SHUF 3) mode functions only when two or more changers are connected to the hideaway unit. When only one changer is connected, the "SHUF 3" indication will not be displayed. In this case, if you press the SHUF button again while the "SHUF 2" indication is being displayed, the shuffle play will be canceled.





Playing a Disc Repeatedly
— Repeat Play Functions

Playing the currently selected track repeatedly — Track repeat

Press REP to get the "REP 1" indication during the CD play.

When the track is over, the CD play will be repeated from the beginning of that track.

Playing the currently selected disc repeatedly — Disc repeat

Press REP to get the "REP 2" indication during the CD play.

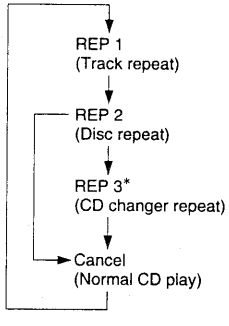
When the last track of the currently selected disc is over, the CD play will be repeated from the beginning of that disc.

Playing the discs in the currently selected CD changer repeatedly — CD changer repeat (when two or more CD changers are connected)

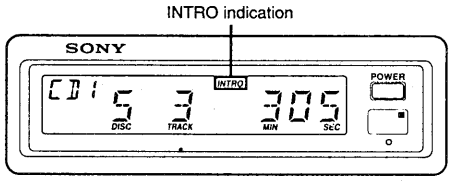
Press REP to get the "REP 3" indication during the CD play.

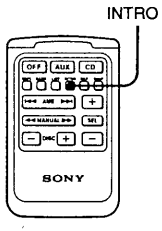
When the last disc of the currently selected CD changer is over, the CD play will be repeated from the first disc in the currently selected CD changer.

The function of the REP button changes cyclically as follows:



* CD changer repeat (REP 3) mode functions only when two or more changers are connected to the hideaway unit. When only one changer is connected, the "REP 3" indication will not be displayed. In this case, if you press the REP button again while the "REP 2" indication is being displayed, the repeat play will be canceled.





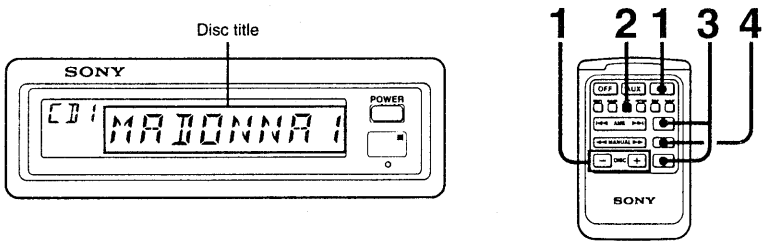
Searching for a Desired Track by Listening to the First 10 Seconds of Each Track
— Intro Scan Function

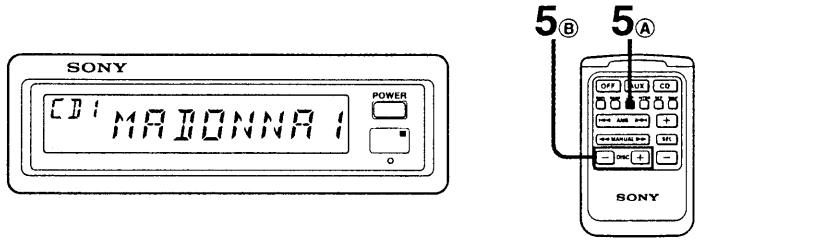
Press INTRO during the CD play.

The first 10 seconds of all the tracks on the currently selected disc will be played in order.
When the first 10 seconds of the last track on a disc is played, it will move on to the next disc.
When the first 10 seconds of the last disc in the first CD changer has been played, the first disc in the next CD changer will be played (only when two or more CD changers are connected).

When you find the desired track
Press the INTRO button once more. The intro scan function will be canceled and you can continue to listen to the track.

Displaying the Title of Each Disc





Putting Your Personalized Titles onto the Discs

1 **Play the disc that you wish to title.**

CD – DISC +

2 **Press the LIST button for more than two seconds to enter the name edit mode.**

LIST

Name edit mode

3 **Press either the – or + button to select the desired characters.**

Each time you press the – or + button, characters will come on in the following order:

\+ ➡ _→A→B→C→...→X→Y→Z→0→1→2→3→...

– ➡ _→\→(→)→\→/→*→−→+→9→...

If you keep the button pressed, the characters will change rapidly.

4 **Press the SEL button after locating the desired character.**

SEL

The flashing part will move to the next space on the right. Repeat steps 3 and 4 to enter the entire titles. Up to eight characters can be used per disc.

You can put a title of your own choice onto a disc (one title per disc). The title can be displayed on the display window while the disc is being located and played. A maximum of eight characters can be used per title.

Notes

- If you press the SEL button when the eighth character (farthest right character) is flashing, the flashing part goes back to the first character (farthest left character).
- If you wish to put a blank space after a character, select "_" (under-bar).

5 Ⓐ **To reenters the CD play mode**

LIST Press the LIST button for more than two seconds.

Ⓑ **To continue to put titles onto the discs**

– DISC + Press the – DISC + button only lightly.

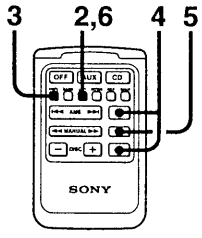
If you press the CD button, the next CD changer will be selected and the set will re-enter the normal CD play mode.

Changing a title

Play the disc whose title you wish to change and repeat steps 2 to 5.

When you change the title, the PLAY/SKIP settings of the bank function will not be erased at the same time.

Displaying the Title of Each Disc



Erasing a title

1 **Select the CD changer and play any disc.**
2 **Press the LIST button for more than two seconds** to enter the name edit mode.
3 **Press the DSPL button for more than two seconds.**
4 **Press either the ⊟ or ⊞ button** to select the title that you wish to erase.
5 **Press the SEL button for more than two seconds.**
Repeat step 4 and 5 if necessary.
6 **Press the LIST button for more than two seconds.**
Now the title and the PLAY/SKIP settings are erased.
The set returns to the normal CD play mode.

Displaying the title

Press the DSPL button.

Title display modes

While loading the discs, whatever the display mode the set is in, the indication on the display window automatically changes as follows: The title of the disc (two seconds) → Disc and track number (two seconds) → Currently selected display mode (two seconds)

When you erase the title, the PLAY/SKIP settings of the bank function will be erased as well.

The alternative method to erase a title
You can erase a title by selecting eight "_" (under-bars) as described in step 3 of "Putting Your Personalized Titles onto the Discs". (Page 14)

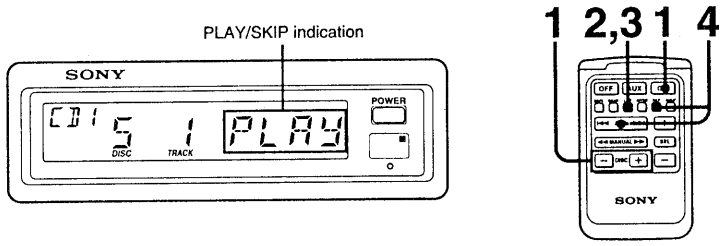
Custom file function

You can register the customized titles and the PLAY/SKIP settings on up to 110 discs* per CD changer (custom file function). These settings will be stored in the memory of the CD changer. Therefore, even if you take a custom-filed disc out of the CD changer, you can still use the same custom file function the next time you play that disc in the same CD changer. Furthermore, if your system has several CD changers connected, you can play that disc in another CD changer and still use the same custom file function, provided that the CD changers are inter-connected with the UNILINK cables.

* If you try to register more than 110 discs, the display unit will display the "FULL" indication and will not accept the command for custom-filing. In this case, you will have to erase the memory of other discs before you enter new ones.

Note
The registered titles of the discs may not come on the display window immediately while it is being loaded inside the CD changer.

Playing Selected Tracks on a Disc



Setting the PLAY and SKIP Modes on the Discs

1 **Play the disc to which you wish to set these modes.**

CD − DISC +

2 **Press the LIST button for more than two seconds and put the titles onto the discs.**

LIST

See page 14 for details about putting on a title. If the title has already been registered, go to step 3.

3 **Press the LIST button lightly to enter the PLAY/SKIP edit mode.**

LIST

4 **Press the AMS button to select the track number you wish to skip and press the SEL button.**

|◄◄ AMS ►►| SEL

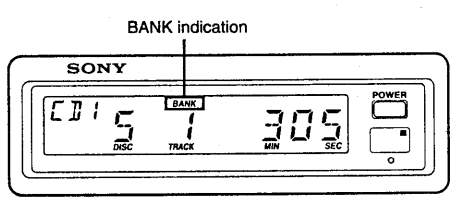
The indication changes from "PLAY" to "SKIP". If you wish to return to "PLAY", press the SEL button again.

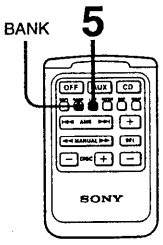
Repeat the operation in this step to set either the PLAY or SKIP mode on all the tracks.

You can listen to only the desired tracks by using this function.

Notes

- When the title is not registered, you cannot enter the PLAY/SKIP edit mode even if you press the LIST button.
- You can only set the SKIP mode onto up to 24 tracks. If a disc has more than 24 tracks, you will not be able to set the SKIP mode on the tracks after the 24th track.
- You cannot set the SKIP mode onto all of the track on a disc.





5 **Press the LIST button for more than two seconds.**

LIST

The set re-enters the normal CD play mode.

Playing with the Bank Function

BANK

Each time the BANK button is pressed, the indication on the display window will change cyclically as follows:

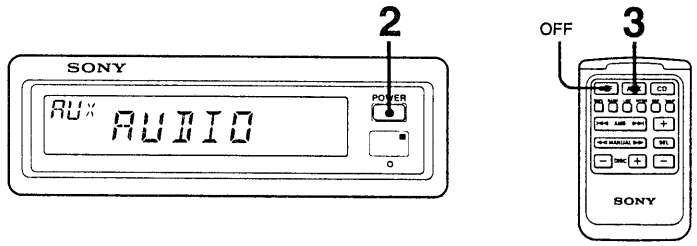
→ No indication (Normal CD play mode) → ***BANK*** → ***BANK*** (flashing) →

If the "BANK" indication is on the display window, only the tracks with the PLAY settings will be played.
If the "BANK" indication is flashing on the display window, only the tracks with the SKIP settings will be played.

Each time you press the BANK button, the display on the display window will change to "BANK ON", "BANK INV" or "BANK OFF" for a second before returning to the previous display.

Even when you play a disc with the PLAY/SKIP settings, if the "BANK" indication has not come on the display window, the disc will not be played according to the settings.

Listening to Your Existing Car Audio



1 Turn on your car audio.

2 Press the POWER switch on the display unit.

POWER

3 Press the AUX button on the remote commander.

AUX

If your car audio is equipped with the amp remote control function, just turn on your car audio.

Turning off the Set and the Existing Car Audio

1 Press the POWER switch on the display unit.
2 Press the OFF button on the remote commander.
3 Turn off your car audio.

If your car audio is equipped with the amp remote control function, when you turn off your car audio, the set and the existing car audio will be turned off automatically.

Installation

Precaution

Avoid installing the unit where:
- — it would be subjected to high temperatures, such as from direct sunlight or hot air from the heater.
- — it would be exposed to rain or moisture.
- — it would be subjected to dust or dirt.

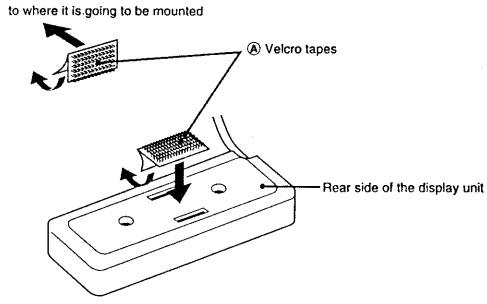
Remote Commander and Display Unit

- Avoid mounting them in the following locations where they may:
  - — hinder normal driving conditions of the driver.
  - — jeopardize the passengers.
  - — be subjected to the hot air from the heater.
  - — be subjected to direct sunlight.
- When installing the system, be sure to check that the whole system can be operated by the remote commander.

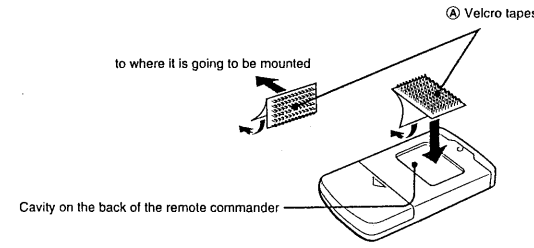
Installing the Display Unit and the Remote Commander

Use the supplied velcro tapes Ⓐ and mount them to the location where it will not interfere with your driving.

Display Unit



Remote Commander



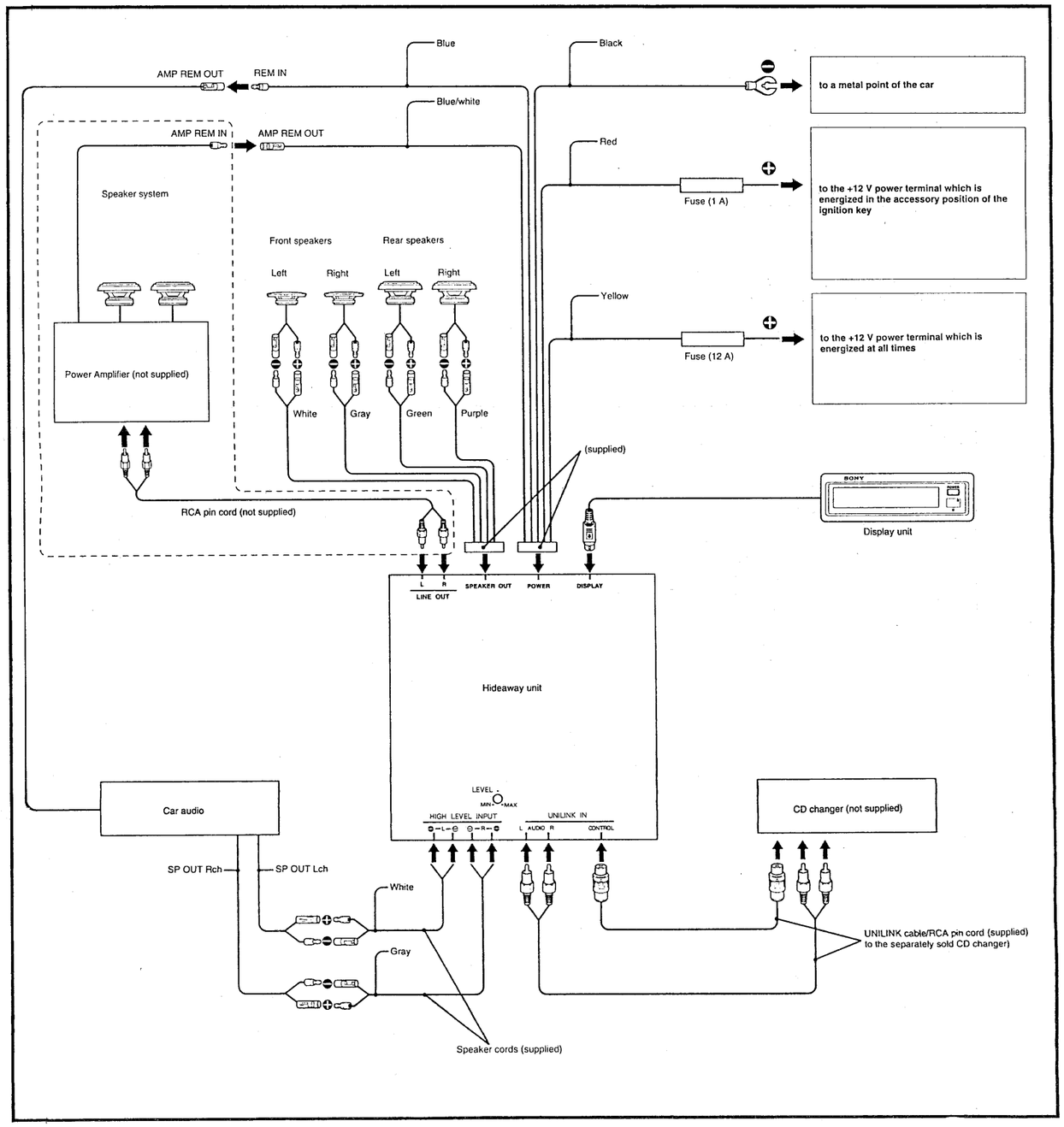
Installing the Hideaway Unit

- Install the hideaway unit underneath the passenger seat etc..
- Be sure not to cover the hideaway unit with the floor carpet etc..
- If necessary, use the supplied screws Ⓑ.

Connections

Caution

- This unit is designed for negative ground 12 V DC operation only.
- Use speakers with an impedance of 4 to 8 ohms.
- Do not connect any active speakers (with built-in amplifiers) to the speaker terminals of the hideaway unit. Doing so may damage the active speakers. Therefore, be sure to connect the passive speakers to these terminals.
- Before making connections, disconnect the ground wire terminal of the car battery to avoid short circuits.



POWER SELECT Switch

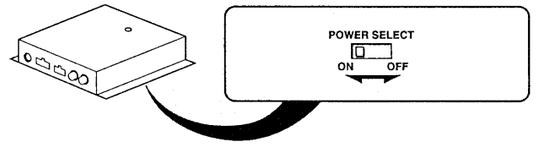
If your car's ignition key panel has the ACC (accessory) position

The POWER SELECT switch located on the bottom of the hideaway unit is factory-set to the ON position so that the display on the display window will come on when the ignition key of your car is turned.

If your car's ignition key panel has no ACC (accessory) position

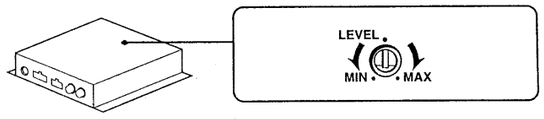
The original setting of the POWER SELECT switch may cause some car battery wear. To avoid this from happening, set the POWER SELECT switch to the OFF position*. When the ignition key is turned to the OFF position, the display on the display window will go off. Whenever you change the setting of the POWER SELECT switch, be sure to press the reset button on the display unit.

- When the POWER SELECT switch is set to the OFF position, you will not be able to start the CD play with the remote commander while the set is in the off mode, that is to say when there is no display on the display window. Therefore, press the POWER switch on the display unit before using the remote commander.



LEVEL (auxiliary input level adjust) Control

With this control, you can adjust the input level of the auxiliary source (speaker outputs of your car audio).
After the connection has been completed, turn up the volume of your car audio until just before the sound becomes distorted. Then adjust the LEVEL control with a screw driver so that the volume level of the car audio becomes the same as that of the CD changer.



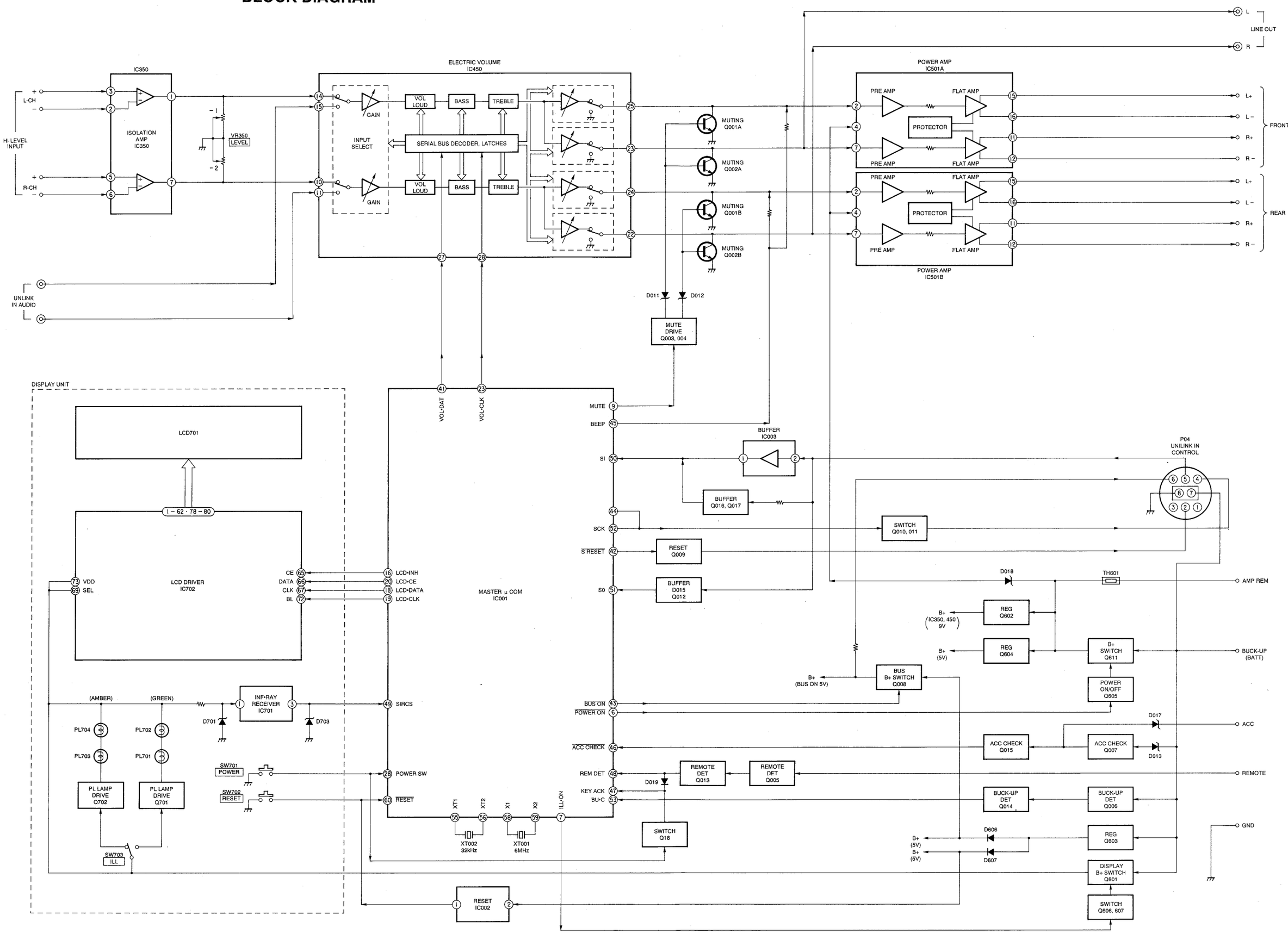
SECTION 2
EXPLANATION OF IC TERMINALS

IC001 μ PD75517GF-189-3B9

Terminal No.	Port name	Name of terminal	I/O	Active	Description
1	ANO	KEY0	I	—	A/D converter, KEY input terminal
2	AVref	Vref	I	—	A/D converter, standard voltage input terminal
3	VDD	VDD	–	—	Power source terminal (+5V)
4	VPP	VPP	–	—	Connected with VDD
5	P113	KEY ACT	O	Hi	KEY A/D port, active output terminal
6	P112	POWER ON	O	Hi	POWER ON output terminal
7	P111	ILL ON	O	Hi	Display LCD ON output terminal
8	P110	COLOR	O	—	This terminal is not used for this unit.
9	P103	MUTE	O	Hi	MUTE output terminal
10	P102	A MUTE	O	Hi	AUX MUTE output terminal. This terminal is not used for this unit.
11	P101	DOLBY	–	—	
12	P100	DOLBY C	–	—	
13	P93	REM ANT	–	—	This terminal is not used for this unit.
14	P92	PL	–	—	This terminal is not used for this unit.
15	P91	MD POW	–	—	This terminal is not used for this unit.
16	P90	LCD INH	O	Hi	Inhibit output terminal for display LCD driver
17	SI1/P83	——	–	—	
18	SOI/P82	LCD DATA	O	—	Data output terminal for display LCD driver
19	SCK/P81	LCD CLK	O	Low	Clock output terminal for display LCD driver
20	PPO/P80	LCD CE	O	Hi	Chip enable output terminal for display LCD driver
21	P73	VOL CE	O	—	Chip enable output terminal for electronic volume IC. This terminal is not used for this unit.
22	P72	PLL CE	O	—	Chip enable output terminal for tuner PLL IC. This terminal is not used for this unit.
23	P71	VOL CLK	O	Hi	Clock output for electronic volume IC
24	P70	NC	O	—	This terminal is not used for this unit.
25	P63	TV IN	I	Low	TV YES/NO (Low → YES, Hi → NO)
26	P62	TEST1	I	Low	Test mode input terminal (Low → normal, Hi → test mode)
27	P61	SER	I	Low	Service mode input terminal (Low → normal, Hi → service mode)
28	P60	IPWR SW	I	Low	Power switch input terminal
29	P53	——	–	—	Used for GND connection for this unit.
30	P52	——	–	—	Used for GND connection for this unit.
31	P51	——	–	—	Used for GND connection for this unit.
32	P50	——	–	—	Used for GND connection for this unit.
33	Vss	GND	–	—	Power source terminal (GND)
34	P43	——	–	—	Used for GND connection for this unit.
35	P42	——	–	—	Used for GND connection for this unit.
36	P41	——	–	—	Used for GND connection for this unit.
37	P40	——	–	—	Used for GND connection for this unit.
38	P33	NC	–	—	This terminal is not used for this unit.
39	P32	NC	–	—	This terminal is not used for this unit.
40	P31	NC	–	—	This terminal is not used for this unit.

Terminal No.	Port name	Name of terminal	I/O	Active	Description
41	P30	VOL DAT	O	Hi	Data output terminal for electronic volume IC
42	P23	$\overline{\text{S RESET}}$	O	Low	System reset output terminal
43	P22	$\overline{\text{BUS ON}}$	O	Low	Communication POWER ON output terminal or UNI-LINK
44	P21	CLK	O	Low	Clock output terminal for UNI-LINK
45	P20	BEEP	O	Hi	BEEP output terminal
46	P13/T10	$\overline{\text{ACC CHK}}$	I	Low	ACC check input terminal
47	P12/INT2	KEY ACK	I	Low	KEY active input terminal
48	P11/INT1	REM DET	I	Hi	AMP REMOTE detection terminal (Low → INACTIVE, Hi → ACTIVE)
49	P10/INT0	SIRCS	I	Hi	SIRCS remote commander input terminal
50	P03	SI	I	—	Serial input terminal for UNI-LINK
51	P02	SO	O	—	Serial output terminal for UNI-LINK
52	P01	SCK	O	Low	Serial clock output terminal for UNI-LINK
53	P00/INT4	BU CHK	I	Hi	Back-up check terminal
54	Vss	GND	–	—	Power source terminal (GND)
55	XT1	XT1	I	—	For sub-system clock oscillation. 32kHz
56	XT2	XT2	–	—	For sub-system clock oscillation. 32kHz
57	IC	IC	–	—	Vss level input terminal. (Connected with GND)
58	X1	X1	I	—	For main-system clock oscillation. 6MHz
59	X2	X2	I	—	For main-system clock oscillation. 6MHz
60	RESET	$\overline{\text{RESET}}$	I	—	System reset input terminal
61	P143	ITV2A	I	—	TV 2 BAND YES/NO (Low → YES, Hi → NO)
62	P142	IWAT	I	Low	Clock function YES /NO (Low → YES, Hi → NO)
63	P141	PRE AMP	I	—	Pre Amp. function YES/NO (Low → YES, Hi → NO)
64	P140	KEY CH	I	—	JOYSTICK REMOTE CONTROL/KEY YES/NO, input (Low → JOYSTICK, Hi → KEY). This terminal is not used for this unit.
65	P133	AMP SE	I		AMP REMOTE YES/NO, input (Low → NO, Hi → YES)
66	P132	$\overline{\text{TEL MT}}$	I	Low	TELEPHONE MUTE input
67	P131	NC	–	—	This terminal is not used for this unit.
68	P130	OMENO	I	Hi	MASK connect/disconnect input terminal. This is used for GND connection for this unit.
69	P123	NC	–	—	This terminal is not used for this unit.
70	P122	NC	–	—	This terminal is not used for this unit.
71	P121	SIG2	O	—	Audio select 2. This terminal is not used for this unit.
72	P120	SIG1	O	—	Audio select 1. This terminal is not used for this unit.
73	AVss	AVSS	–	—	A/D converter GND terminal
74	P153	NC	–	—	This terminal is not used for this unit.
75	P152	IPSEL	I	—	POWER select ON/OFF input terminal
76	P151	——	–	—	
77	P150	——	–	—	
78	AN3	——	–	—	
79	AN2	KEY2	I	—	A/D converter KEY input (JOYSTICK) terminal
80	AN1	KEY1	I	—	A/D converter KEY input terminal

SECTION 3
BLOCK DIAGRAM



SECTION 4
DIAGRAMS

● SEMICONDUCTOR LEAD LAYOUTS

TC9246F
μ PD75517GF
-189-3B9

MARKING SIDE VIEW

2SD1021
DTC314TS

TDA7313D013TR

2SA1162
2SC1623-L5L6
DTA124EK
DTC124EK
DTC144EK

TA8210AH

1SS119
RD11ES-B2
RD18ES-B2
RD5.1ES-B1
RD5.6ES-B2
RD6.2ES-B2

LA6393M
μ PC4558G2

RD10ES-B2
RD4.3ES-B2

S-8054HN

1SS193
RD5.1M-B2
RD6.2M-B2
RD6.8M-B2

● SEMICONDUCTOR LOCATION

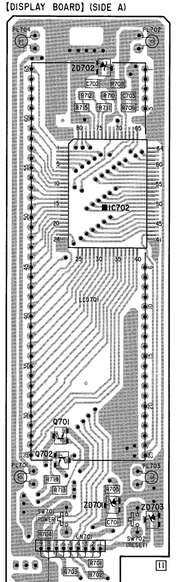
Ref. No	Location	Ref. No.	Location
D001	H - 19	IC501A	B - 15
D002	H - 19	IC501B	H - 15
D003	H - 13	IC701	H - 5
D004	H - 13	IC702	D - 2
D005	H - 13		
D006	H - 13	Q003	F - 13
D007	H - 13	Q004	F - 13
D008	H - 13	Q005	E - 17
D009	H - 13	Q006	D - 17
D010	E - 18	Q007	D - 17
D011	G - 16	Q008	H - 18
D012	G - 14	Q009	G - 17
D013	D - 17	Q010	H - 19
D014	H - 18	Q011	H - 19
D015	H - 17	Q012	H - 17
D016	D - 17	Q013	E - 17
D017	D - 17	Q014	D - 16
D018	F - 13	Q015	D - 16
D019	D - 16	Q016	H - 17
D601	E - 11	Q017	H - 17
D602	G - 11	Q018	F - 16
D603	D - 11	Q801	H - 11
D604	C - 11	Q802	D - 12
D805	D - 11	Q803	C - 11
D806	C - 12	Q804	D - 11
D807	C - 12	Q805	E - 11
		Q806	H - 12
ZD701	H - 2	Q807	H - 11
ZD702	C - 2	Q811	E - 12
ZD703	H - 3	Q701	G - 2
		Q702	H - 2
IC001	E - 15	Q001A	B - 17
IC002	C - 15	Q001B	G - 15
IC003	H - 18	Q002A	B - 17
IC350	C - 18	Q002B	G - 15
IC450	F - 19		

Note:

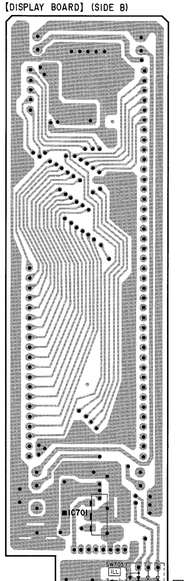
- ○— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▒ : Pattern on the side which is seen.
- ▭ : Chip components extracted from the rear side.

4-1. PRINTED WIRING BOARDS

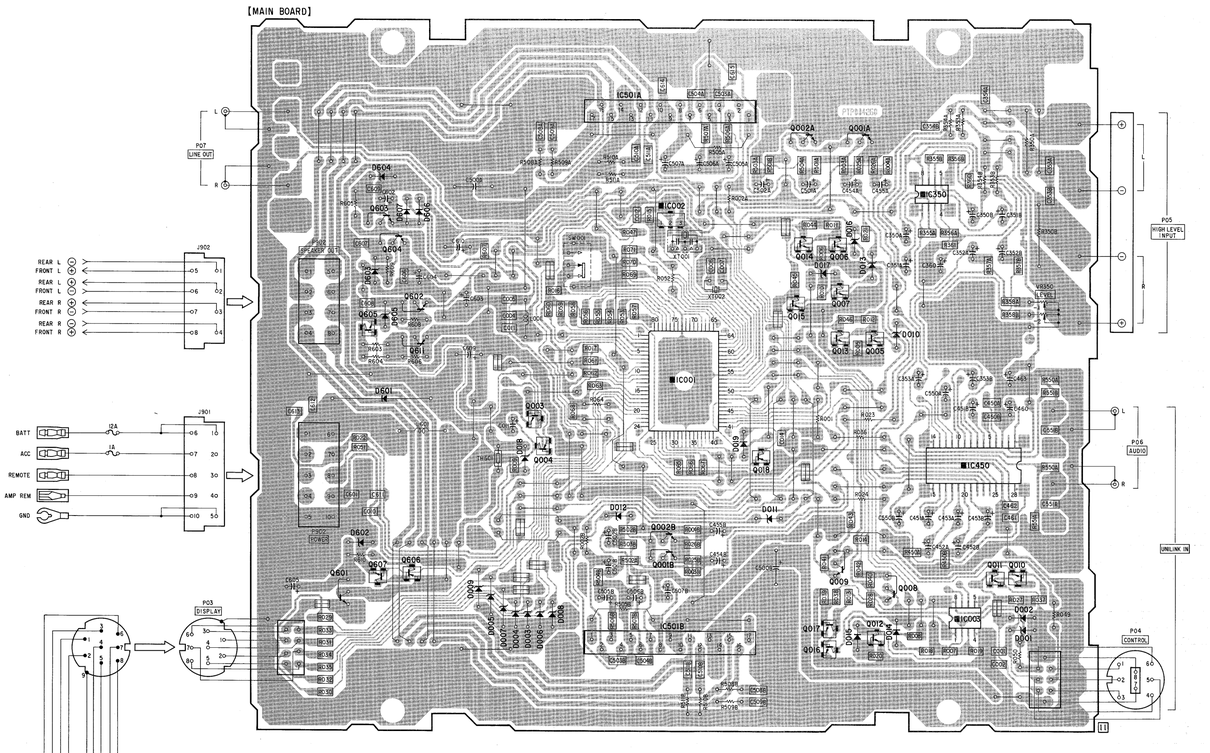
【DISPLAY BOARD】 (SIDE A)

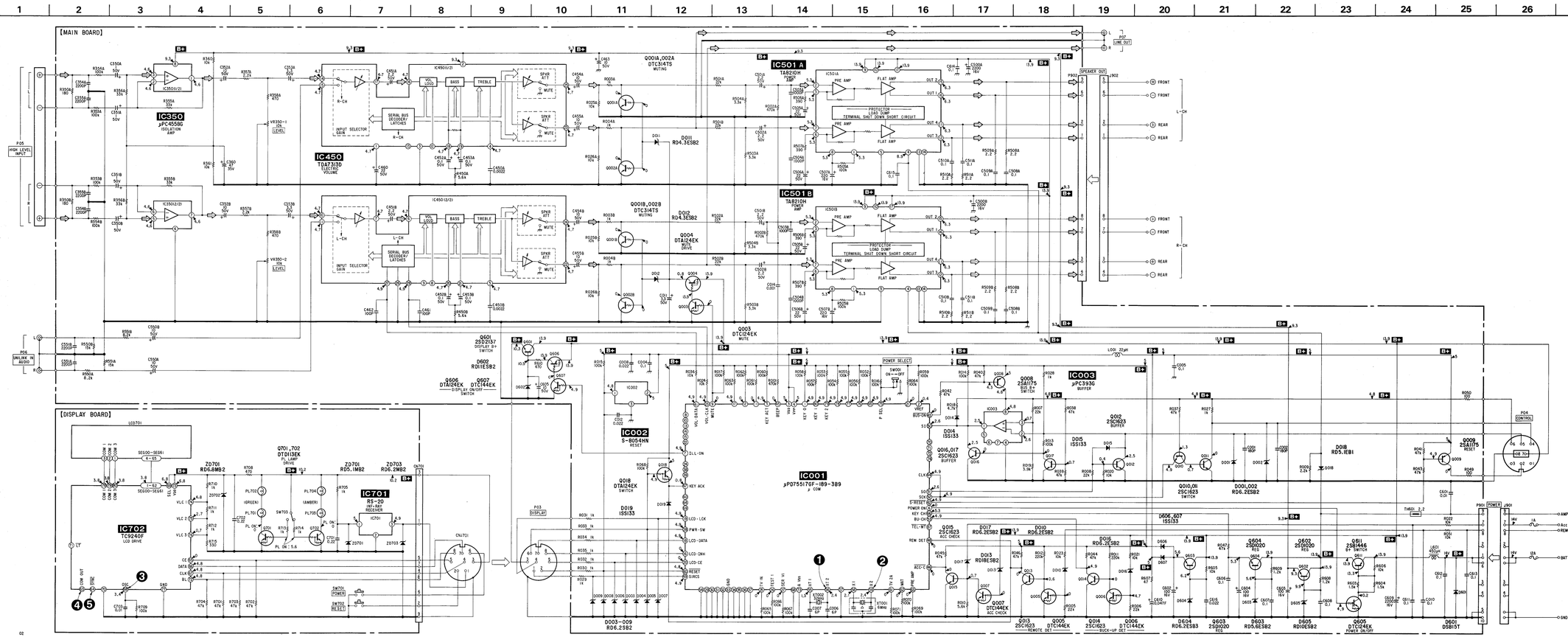


【DISPLAY BOARD】 (SIDE B)



【MAIN BOARD】



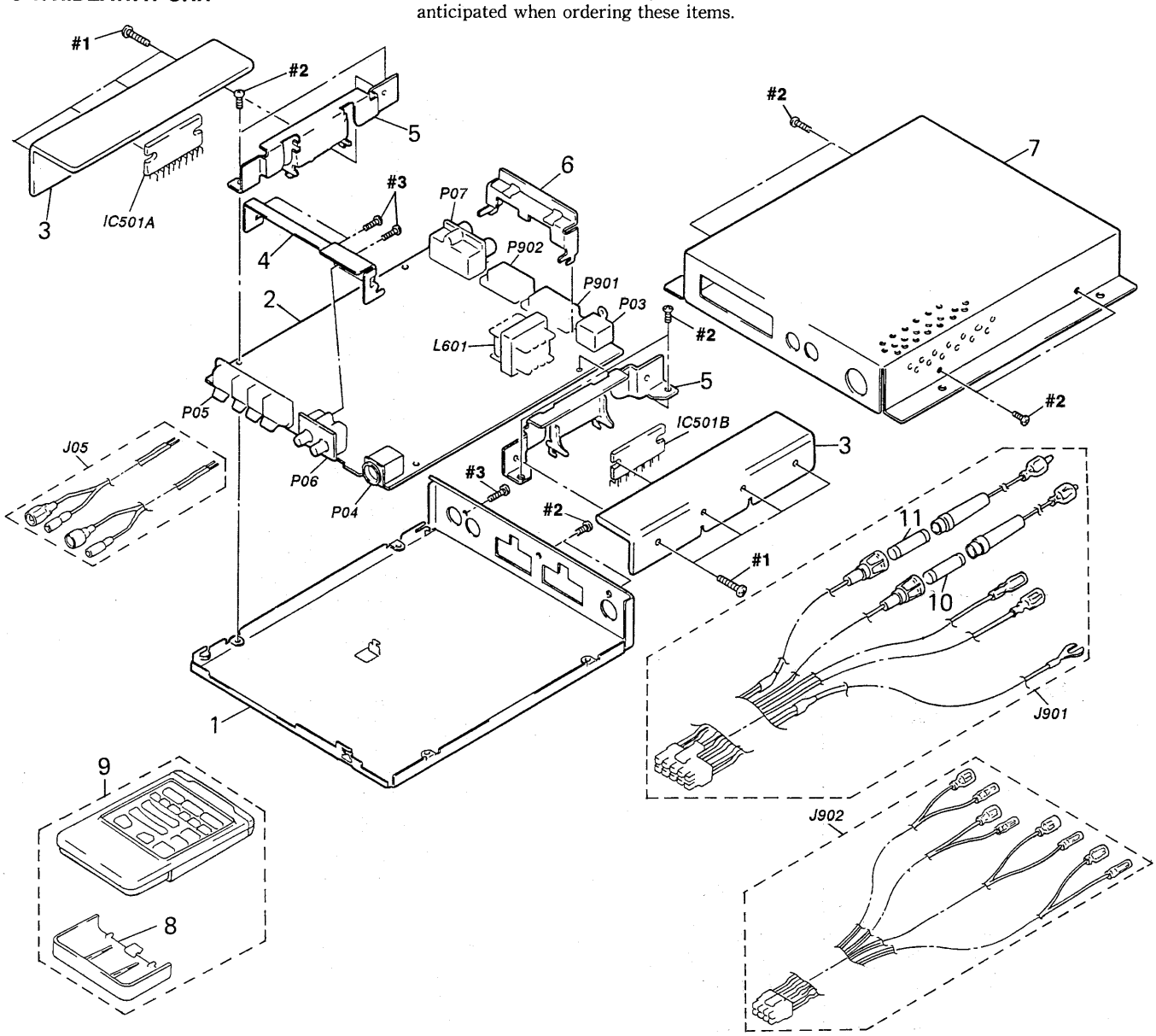

【MAIN BOARD】
【DISPLAY BOARD】
IC350
μPC4559G
ISOLATION AMP
IC450
TDA7313D
ELECTRIC VOLUME
IC501 A
TA8210H
POWER AMP
IC501 B
TA8210H
POWER AMP
IC002
S-8054HN
RESET
IC001
μPD751?GF-189-3B9
μ COM
IC003
μPC393G
BUFFER
IC701
RS-20
INFO-R&V RECEIVER
IC702
TC9240F
LCD DRIVE
Q001A,002A
DTC314TS
MUTING
Q001B,002B
DTC314TS
MUTING
Q003
DTC124EK
MUTE
Q004
DTA124EK
DRIVE
Q601
2SD2137
DISPLAY B+ SWITCH
Q606
DTA124EK
DISPLAY ON/OFF SWITCH
Q607
DTC144EK
DISPLAY ON/OFF SWITCH
Q008
2SA1175
SUB B+ SWITCH
Q009
2SA1175
MUTE
Q010,011
2SC1623
SWITCH
Q012
2SC1623
BUFFER
Q013
2SC1623
REMOTE DET
Q014
2SC1623
BACK-UP SET
Q015
2SC1623
ACC CHECK
Q016,017
2SC1623
BUFFER
Q501
2SC1623
Q502
2SC1623
Q503
2SC1623
Q504
2SD1020
Q505
DTC144EK
Q506
DTC144EK
Q507
2SC1623
Q508
2SD1020
Q509
2SC1623
Q510
2SB1445
Q601
DTC124EK
POWER ON/OFF
Q602
2SD1020
Q603
2SD1020
Q604
2SD1020
Q605
DTC124EK
POWER ON/OFF
Q606,607
ISS133
D001,002
RD6.2ESB2
D003
RD18ESB2
D004
ISS133
D005
ISS133
D006
RD6.2ESB2
D007
DTC144EK
ACC CHECK
D008
RD5.1EB1
D009
RD6.2ESB2
D010
RD6.2ESB2
D011
RD4.3ESB2
D012
RD4.3ESB2
D013
RD6.2ESB2
D014
RD6.2ESB2
D015
ISS133
D016
RD6.2ESB2
D017
RD6.2ESB2
D018
RD5.1EB1
D019
ISS133
D501
RD6.2ESB2
D502
RD6.2ESB2
D503
RD5.6ESB2
D504
RD10ESB2
D601
05B15T
D602
RD6.2ESB2
D603
RD6.2ESB2
D604
RD6.2ESB2
D605
RD10ESB2
D606,607
ISS133
D701
RD6.8MB2
D702
RD6.2MB2
D703
RD6.2MB2
D704
RD5.1MB2
D705
RD6.2MB2
D706
RD6.2MB2
D707
RD6.2MB2
D708
RD6.2MB2
D709
RD6.2MB2
D710
RD6.2MB2
D711
RD6.2MB2
D712
RD6.2MB2
D713
RD6.2MB2
D714
RD6.2MB2
D715
RD6.2MB2
D716
RD6.2MB2
D717
RD6.2MB2
D718
RD6.2MB2
D719
RD6.2MB2
D720
RD6.2MB2
D721
RD6.2MB2
D722
RD6.2MB2
D723
RD6.2MB2
D724
RD6.2MB2

SECTION 5
EXPLODED VIEWS

NOTE:

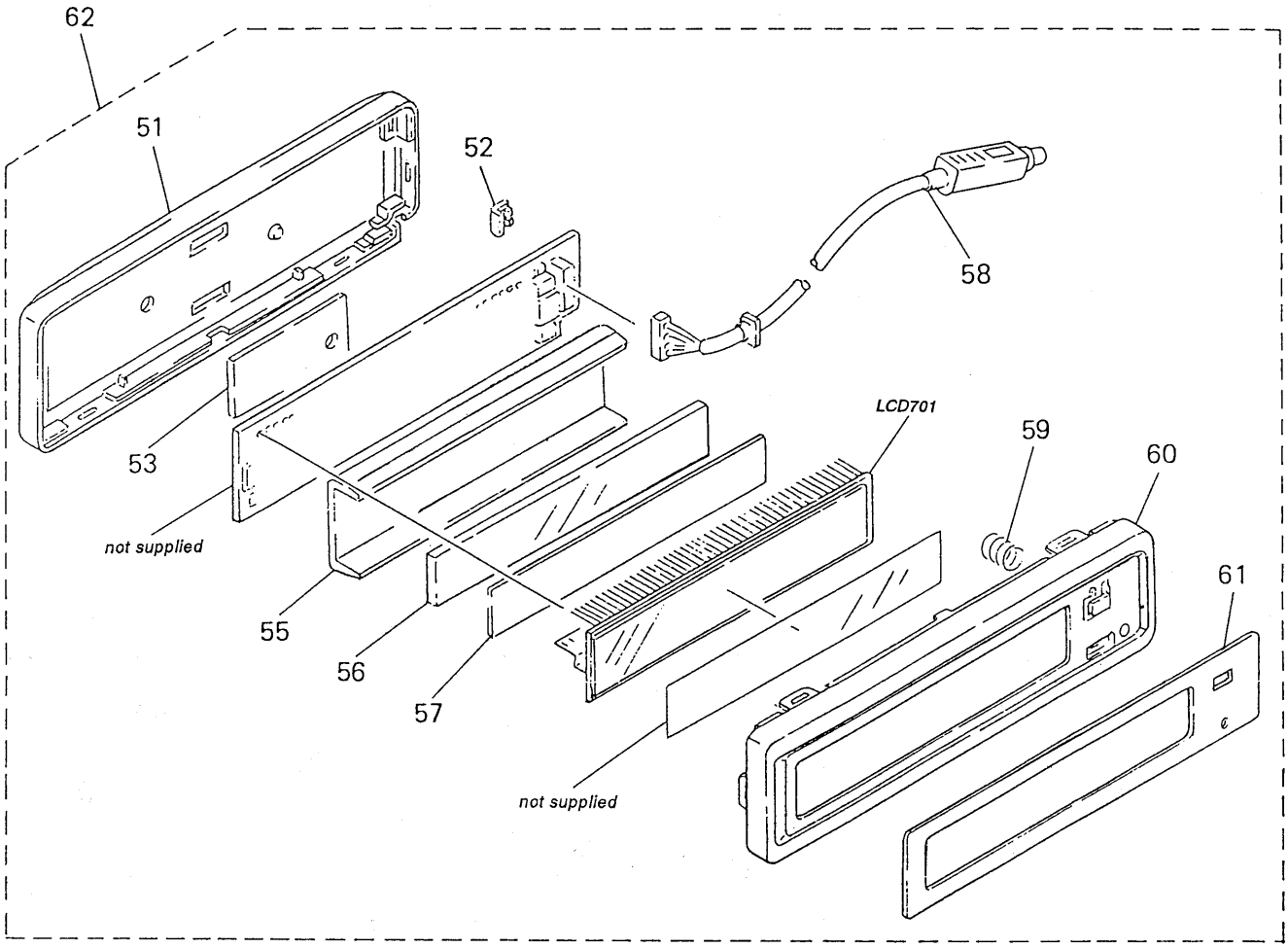
- -XX, -X mean standardized parts, so they may have some differences from the original one.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list is given in the last of this parts list.

5-1. HIDEAWAY UNIT



Ref. No.	Part No.	Description	Remark
* 1	3-388-278-01	CHASSIS (B)	
* 2	A-3295-450-A	MAIN BOARD, COMPLETE	
* 3	3-388-279-01	HEAT SINK	
* 4	3-388-275-01	HOLDER (A)	
* 5	3-388-280-01	HOLDER (IC)	
* 6	3-388-276-01	HOLDER (B)	
* 7	3-388-277-01	CHASSIS (T)	
8	3-364-784-01	LID, BATTERY CASE	
9	1-466-952-11	REMOTE COMMANDER (XMC-U150)	
10	1-532-433-11	FUSE, GLASE TUBE (1A)	
11	1-532-678-11	FUSE, GLASE TUBE (12A)	
IC501A	8-759-039-68	IC TA8210AH	
IC501B	8-759-039-68	IC TA8210AH	
J05	1-751-143-11	CORD, CONNECTION (SP) (HIGH LEVEL INPUT)	
J901	1-751-145-21	CORD (WITH CONNECTOR) (POWER)	
J902	1-751-144-11	CORD (WITH CONNECTOR) (SP) (SPEAKER OUT)	
L601	1-421-961-11	COIL, CHOKE 450uH	
P03	1-580-489-11	SOCKET, CONNECTOR 8P (DISPLAY)	
P04	1-580-907-11	PLUG, CONNECTOR (CONTROL)	
P05	1-537-238-11	TERMINAL BOARD (HIGHT LEVEL INPUT)	
P06	1-580-281-11	JACK, PIN 2P (AUDIO)	
P07	1-580-281-21	JACK, PIN 2P (LINE OUT)	
P901	1-750-535-11	CONNECTOR 10P (POWER)	
P902	1-750-534-11	CONNECTOR 8P (SPEAKER OUT)	

5-2. DISPLAY UNIT



Ref. No.	Part No.	Description	Remark
51	3-375-166-01	CASE (REAR)	
52	3-375-169-01	KNOB (ILLM)	
* 53	3-375-167-01	SHEET (INSULATING)	
* 55	3-367-571-01	HOLDER (LCD)	
* 56	3-375-168-01	PLATE (LCD), LIGHT GUIDE	
* 57	3-388-379-01	SHEET (DIFFUSION)	

Ref. No.	Part No.	Description	Remark
58	1-590-279-11	CORD (WITH CONNECTOR)	
59	3-375-170-01	SPRING, GROUND	
60	3-375-165-41	CASE (FRONT)	
61	3-375-176-01	PLATE, TRANSPARENT	
* 62	A-3223-728-A	DISPLAY ASSY	
LCD701	1-809-286-11	DISPLAY PANEL, LIQUID CRYSTAL	

SECTION 6
ELECTRICAL PARTS LIST

DISPLAY

NOTE :
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX, -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms
  METAL : Metal-film resistor
  METAL OXIDE : Metal oxide-film resistor
  F : nonflammable
- Items marked " * "are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u : μ , for example :
  uA.... : μA.... , uPA.... : μPA....
  uPB.... : μPB.... , uPC.... : μPC....
  uPD.... : μPD....
- CAPACITORS
  uF : μF
- COILS
  uH : μH

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
		DISPLAY BOARD			
		**********			
		< CAPACITOR >			
C701	1-163-038-11	CERAMIC CHIP	0.22uF		50V
C702	1-163-038-11	CERAMIC CHIP	0.22uF		50V
C703	1-163-021-11	CERAMIC CHIP	0.01uF	10%	50V
		< CONNECTOR >			
* CN701	1-566-764-11	PIN, CONNECTOR (PC BOARD) 9P			
		< IC >			
IC701	8-759-515-60	IC RS-20			
IC702	8-759-246-16	IC TC9240F			
		< LIQUID CRYSTAL DISPLAY >			
LCD701	1-809-286-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< PILOT LAMP >			
PL701	1-518-553-11	LAMP, PILOT (GREEN)			
PL702	1-518-553-11	LAMP, PILOT (GREEN)			
PL703	1-518-646-11	LAMP, PILOT (AMBER)			
PL704	1-518-646-11	LAMP, PILOT (AMBER)			
		< TRANSISTOR >			
Q701	8-729-904-66	TRANSISTOR DTD113EK			
Q702	8-729-904-66	TRANSISTOR DTD113EK			

Ref.No.	Part No.	Description			Remark
		< RESISTOR >			
R701	1-216-089-00	METAL CHIP	47K	5%	1/10W
R702	1-216-089-00	METAL CHIP	47K	5%	1/10W
R703	1-216-089-00	METAL CHIP	47K	5%	1/10W
R704	1-216-089-00	METAL CHIP	47K	5%	1/10W
R705	1-216-049-00	METAL CHIP	1K	5%	1/10W
R708	1-216-041-00	METAL CHIP	470	5%	1/10W
R709	1-216-097-00	METAL CHIP	100K	5%	1/10W
R710	1-216-049-00	METAL CHIP	1K	5%	1/10W
R711	1-216-049-00	METAL CHIP	1K	5%	1/10W
R712	1-216-049-00	METAL CHIP	1K	5%	1/10W
R713	1-216-049-00	METAL CHIP	1K	5%	1/10W
R714	1-216-049-00	METAL CHIP	1K	5%	1/10W
R715	1-216-037-00	METAL CHIP	330	5%	1/10W
		< SWITCH >			
SW701	1-572-648-11	SWITCH, TACT (POWER)			
SW702	1-572-648-11	SWITCH, TACT (RESET)			
SW703	1-570-675-11	SWITCH, SLIDE (ILL)			
		< DIODE >			
ZD701	8-719-105-82	DIODE RD5.1M-B2			
ZD702	8-719-106-08	DIODE RD6.2M-B2			
ZD703	8-719-106-17	DIODE RD6.8M-B2			
**********					

MAIN

Ref.No.	Part No.	Description			Remark
*	A-3295-450-A	MAIN BOARD, COMPLETE			
		**********			
*	3-388-275-01	HOLDER (A)			
*	3-388-276-01	HOLDER (B)			
*	3-388-279-01	HEAT SINK			
*	3-388-280-01	HOLDER (IC)			
	7-682-550-04	SCREW +P 3X12			
	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S			
		< CAPACITOR >			
C001	1-163-123-00	CERAMIC CHIP	180PF	5%	50V
C002	1-163-123-00	CERAMIC CHIP	180PF	5%	50V
C004	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C005	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C006	1-163-153-00	CERAMIC CHIP	6PF	0.5PF	50V
C007	1-163-153-00	CERAMIC CHIP	6PF	0.5PF	50V
C008	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C010	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C011	1-123-382-00	ELECT	3.3uF	20%	100V
C012	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C013	1-124-903-11	ELECT	1uF	20%	50V
C014	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C360	1-126-947-11	ELECT	47uF	20%	35V
C460	1-126-233-11	ELECT	22uF	20%	50V
C461	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C462	1-163-117-00	CERAMIC CHIP	100PF	5%	50V
C463	1-126-964-11	ELECT	10uF	20%	50V
C601	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C602	1-126-933-11	ELECT	100uF	20%	16V
C603	1-126-933-11	ELECT	100uF	20%	16V
C604	1-126-933-11	ELECT	100uF	20%	16V
C605	1-126-964-11	ELECT	10uF	20%	50V
C606	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C607	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C608	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C609	1-216-768-11	ELECT	2200uF	20%	16V
C610	1-125-701-11	CAP, DOUBLE LAYER		0.047F	
C611	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C612	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C613	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C614	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C615	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C616	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C350A	1-124-903-11	ELECT	1uF	20%	50V
C350B	1-124-903-11	ELECT	1uF	20%	50V
C351A	1-124-903-11	ELECT	1uF	20%	50V
C351B	1-124-903-11	ELECT	1uF	20%	50V
C352A	1-126-964-11	ELECT	10uF	20%	50V
C352B	1-126-964-11	ELECT	10uF	20%	50V
C353A	1-123-382-00	ELECT	3.3uF	20%	100V
C353B	1-123-382-00	ELECT	3.3uF	20%	100V
C354A	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C354B	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C355A	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C355B	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C450A	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C450B	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C451A	1-124-925-11	ELECT	2.2uF	20%	100V
C451B	1-124-925-11	ELECT	2.2uF	20%	100V
C452A	1-124-463-00	ELECT	0.1uF	20%	50V
C452B	1-124-463-00	ELECT	0.1uF	20%	50V
C453A	1-124-463-00	ELECT	0.1uF	20%	50V
C453B	1-124-463-00	ELECT	0.1uF	20%	50V
C454A	1-126-964-11	ELECT	10uF	20%	50V
C454B	1-126-964-11	ELECT	10uF	20%	50V
C455A	1-126-964-11	ELECT	10uF	20%	50V
C455B	1-126-964-11	ELECT	10uF	20%	50V
C500A	1-126-768-11	ELECT	2200uF	20%	16V
C500B	1-126-768-11	ELECT	2200uF	20%	16V
C501A	1-123-381-00	ELECT	2.2uF	20%	100V
C501B	1-123-381-00	ELECT	2.2uF	20%	100V
C502A	1-123-381-00	ELECT	2.2uF	20%	100V
C502B	1-123-381-00	ELECT	2.2uF	20%	100V
C503A	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C503B	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C504A	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C504B	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C505A	1-126-233-11	ELECT	22uF	20%	50V
C505B	1-126-233-11	ELECT	22uF	20%	50V
C506A	1-126-233-11	ELECT	22uF	20%	50V
C506B	1-126-233-11	ELECT	22uF	20%	50V
C507A	1-126-934-11	ELECT	220uF	20%	16V
C507B	1-126-934-11	ELECT	220uF	20%	16V
C508A	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C508B	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C509A	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C509B	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C510A	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C510B	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C511A	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C511B	1-163-077-00	CERAMIC CHIP	0.1uF	10%	25V
C550A	1-126-964-11	ELECT	10uF	20%	50V
C550B	1-126-964-11	ELECT	10uF	20%	50V
C551A	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C551B	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V

MAIN

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D001	8-719-109-93	DIODE RD6.2ES-B2	
D002	8-719-109-93	DIODE RD6.2ES-B2	
D003	8-719-109-93	DIODE RD6.2ES-B2	
D004	8-719-109-93	DIODE RD6.2ES-B2	
D005	8-719-109-93	DIODE RD6.2ES-B2	
D006	8-719-109-93	DIODE RD6.2ES-B2	
D007	8-719-109-93	DIODE RD6.2ES-B2	
D008	8-719-109-93	DIODE RD6.2ES-B2	
D009	8-719-109-93	DIODE RD6.2ES-B2	
D010	8-719-109-93	DIODE RD6.2ES-B2	
D011	8-719-109-75	DIODE RD4.3ES-B2	
D012	8-719-109-75	DIODE RD4.3ES-B2	
D013	8-719-110-49	DIODE RD18ES-B2	
D014	8-719-911-19	DIODE 1SS119	
D015	8-719-911-19	DIODE 1SS119	
D016	8-719-109-93	DIODE RD6.2ES-B2	
D017	8-719-109-93	DIODE RD6.2ES-B2	
D018	8-719-109-84	DIODE RD5.1ES-B1	
D019	8-719-911-19	DIODE 1SS119	
D601	8-719-801-48	DIODE 1SS193	
D602	8-719-110-22	DIODE RD11ES-B2	
D603	8-719-109-89	DIODE RD5.6ES-B2	
D604	8-719-109-94	DIODE RD6.2ES-B3	
D605	8-719-110-17	DIODE RD10ES-B2	
D606	8-719-911-19	DIODE 1SS119	
D607	8-719-911-19	DIODE 1SS119	
		< IC >	
IC001	8-759-169-94	IC uPD75517GF-189-3B9	
IC002	8-759-920-28	IC S-8054HN	
IC003	8-759-821-33	IC LA6393M	
IC350	8-759-100-96	IC uPC4558G2	
IC450	8-759-169-92	IC TDA7313D013TR	
IC501A	8-759-039-68	IC TA8210AH	
IC501B	8-759-039-68	IC TA8210AH	
		< JUMPER RESISTOR >	
JR001	1-216-295-00	METAL CHIP 0 5% 1/10W	
JR002	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR003	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR004	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR005	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR006	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR007	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR008	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR009	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR010	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR011	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR012	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR013	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR014	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR015	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR016	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR017	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR018	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR019	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR020	1-216-296-00	METAL CHIP 0 5% 1/8W	
JR021	1-216-296-00	METAL CHIP 0 5% 1/8W	
		< COIL >	
L001	1-410-513-11	INDUCTOR 22uH	
L601	1-421-961-11	COIL, CHOKE 450uH	
		< CONNECTOR >	
P03	1-580-489-11	SOCKET, CONNECTOR 8P (DISPLAY)	
P04	1-580-907-11	PLUG, CONNECTOR (CONTROL)	
P05	1-537-238-11	TERMINAL BOARD (HIGHT LEVEL INPUT)	
P06	1-580-281-11	JACK, PIN 2P (AUDIO)	
P07	1-580-281-21	JACK, PIN 2P (LINE OUT)	
P901	1-750-535-11	CONNECTOR 10P (POWER)	
P902	1-750-534-11	CONNECTOR 8P (SPEAKER OUT)	
		< TRANSISTOR >	
Q003	8-729-901-00	TRANSISTOR DTC124EK	
Q004	8-729-901-05	TRANSISTOR DTA124EK	
Q005	8-729-901-01	TRANSISTOR DTC144EK	
Q006	8-729-901-01	TRANSISTOR DTC144EK	
Q007	8-729-901-01	TRANSISTOR DTC144EK	
Q008	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q009	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q010	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q011	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q012	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q013	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q014	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q015	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q016	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q017	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
Q018	8-729-901-05	TRANSISTOR DTA124EK	
Q601	8-729-423-99	TRANSISTOR 2SD2137-OP	
Q602	8-729-102-14	TRANSISTOR 2SD1021	
Q603	8-729-102-14	TRANSISTOR 2SD1021	
Q604	8-729-102-14	TRANSISTOR 2SD1021	
Q605	8-729-901-00	TRANSISTOR DTC124EK	
Q606	8-729-901-05	TRANSISTOR DTA124EK	

MAIN

Ref. No.	Part No.	Description			Remark
Q607	8-729-901-01	TRANSISTOR	DTC144EK		
Q611	8-729-016-83	TRANSISTOR	2SB1446		
Q001A	8-729-905-55	TRANSISTOR	DTC314TS		
Q001B	8-729-905-55	TRANSISTOR	DTC314TS		
Q002A	8-729-905-55	TRANSISTOR	DTC314TS		
Q002B	8-729-905-55	TRANSISTOR	DTC314TS		
		< RESISTOR >			
R001	1-247-895-00	CARBON	470K	5%	1/4W
R005	1-216-081-00	METAL CHIP	22K	5%	1/10W
R006	1-216-081-00	METAL CHIP	22K	5%	1/10W
R007	1-216-081-00	METAL CHIP	22K	5%	1/10W
R008	1-216-081-00	METAL CHIP	22K	5%	1/10W
R009	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R010	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R011	1-216-105-00	METAL CHIP	220K	5%	1/10W
R012	1-216-105-00	METAL CHIP	220K	5%	1/10W
R013	1-216-097-00	METAL CHIP	100K	5%	1/10W
R014	1-216-097-00	METAL CHIP	100K	5%	1/10W
R015	1-216-097-00	METAL CHIP	100K	5%	1/10W
R016	1-216-097-00	METAL CHIP	100K	5%	1/10W
R017	1-216-097-00	METAL CHIP	100K	5%	1/10W
R018	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R019	1-216-063-00	METAL CHIP	3.9K	5%	1/10W
R020	1-216-073-00	METAL CHIP	10K	5%	1/10W
R021	1-216-073-00	METAL CHIP	10K	5%	1/10W
R022	1-216-073-00	METAL CHIP	10K	5%	1/10W
R023	1-249-429-11	CARBON	10K	5%	1/4W
R024	1-249-429-11	CARBON	10K	5%	1/4W
R027	1-216-049-00	METAL CHIP	1K	5%	1/10W
R028	1-216-049-00	METAL CHIP	1K	5%	1/10W
R029	1-216-049-00	METAL CHIP	1K	5%	1/10W
R030	1-216-049-00	METAL CHIP	1K	5%	1/10W
R031	1-216-049-00	METAL CHIP	1K	5%	1/10W
R032	1-216-049-00	METAL CHIP	1K	5%	1/10W
R033	1-216-049-00	METAL CHIP	1K	5%	1/10W
R034	1-216-049-00	METAL CHIP	1K	5%	1/10W
R035	1-216-049-00	METAL CHIP	1K	5%	1/10W
R036	1-249-429-11	CARBON	10K	5%	1/4W
R037	1-216-089-00	METAL CHIP	47K	5%	1/10W
R038	1-216-089-00	METAL CHIP	47K	5%	1/10W
R039	1-216-089-00	METAL CHIP	47K	5%	1/10W
R040	1-216-089-00	METAL CHIP	47K	5%	1/10W
R041	1-216-089-00	METAL CHIP	47K	5%	1/10W
R042	1-216-089-00	METAL CHIP	47K	5%	1/10W
R043	1-216-089-00	METAL CHIP	47K	5%	1/10W
R044	1-216-089-00	METAL CHIP	47K	5%	1/10W
R045	1-216-089-00	METAL CHIP	47K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R046	1-216-089-00	METAL CHIP	47K	5%	1/10W
R047	1-216-089-00	METAL CHIP	47K	5%	1/10W
R049	1-249-405-11	CARBON	100	5%	1/4W
R050	1-249-405-11	CARBON	100	5%	1/4W
R051	1-216-073-00	METAL CHIP	10K	5%	1/10W
R052	1-216-097-00	METAL CHIP	100K	5%	1/10W
R053	1-216-097-00	METAL CHIP	100K	5%	1/10W
R054	1-216-097-00	METAL CHIP	100K	5%	1/10W
R055	1-216-097-00	METAL CHIP	100K	5%	1/10W
R056	1-216-097-00	METAL CHIP	100K	5%	1/10W
R057	1-216-097-00	METAL CHIP	100K	5%	1/10W
R058	1-216-097-00	METAL CHIP	100K	5%	1/10W
R059	1-216-097-00	METAL CHIP	100K	5%	1/10W
R060	1-216-097-00	METAL CHIP	100K	5%	1/10W
R061	1-216-097-00	METAL CHIP	100K	5%	1/10W
R062	1-216-097-00	METAL CHIP	100K	5%	1/10W
R063	1-216-097-00	METAL CHIP	100K	5%	1/10W
R064	1-216-097-00	METAL CHIP	100K	5%	1/10W
R065	1-216-097-00	METAL CHIP	100K	5%	1/10W
R066	1-216-097-00	METAL CHIP	100K	5%	1/10W
R067	1-216-097-00	METAL CHIP	100K	5%	1/10W
R068	1-216-097-00	METAL CHIP	100K	5%	1/10W
R069	1-216-097-00	METAL CHIP	100K	5%	1/10W
R070	1-216-097-00	METAL CHIP	100K	5%	1/10W
R071	1-216-097-00	METAL CHIP	100K	5%	1/10W
R360	1-216-073-00	METAL CHIP	10K	5%	1/10W
R361	1-216-073-00	METAL CHIP	10K	5%	1/10W
R603	1-249-419-11	CARBON	1.5K	5%	1/4W
R604	1-249-419-11	CARBON	1.5K	5%	1/4W
R605	1-249-429-11	CARBON	10K	5%	1/4W
R606	1-249-429-11	CARBON	10K	5%	1/4W
R607	1-216-017-00	METAL CHIP	47	5%	1/10W
R608	1-249-418-11	CARBON	1.2K	5%	1/4W
R609	1-249-418-11	CARBON	1.2K	5%	1/4W
R610	1-249-413-11	CARBON	470	5%	1/4W
R002A	1-247-895-00	CARBON	470K	5%	1/4W
R002B	1-247-895-00	CARBON	470K	5%	1/4W
R003A	1-216-049-00	METAL CHIP	1K	5%	1/10W
R003B	1-216-049-00	METAL CHIP	1K	5%	1/10W
R004A	1-216-049-00	METAL CHIP	1K	5%	1/10W
R004B	1-216-049-00	METAL CHIP	1K	5%	1/10W
R025A	1-216-073-00	METAL CHIP	10K	5%	1/10W
R025B	1-216-073-00	METAL CHIP	10K	5%	1/10W
R026A	1-216-073-00	METAL CHIP	10K	5%	1/10W
R026B	1-216-073-00	METAL CHIP	10K	5%	1/10W
R350A	1-214-846-00	METAL CHIP	180	1%	1/2W
R350B	1-214-846-00	METAL CHIP	180	1%	1/2W
R353A	1-249-441-11	CARBON	100K	0.5%	1/4W
R353B	1-249-441-11	CARBON	100K	0.5%	1/4W

Ref. No.	Part No.	Description			Remark
R354A	1-249-441-11	CARBON	100K	0.5%	1/4W
R354B	1-249-441-11	CARBON	100K	0.5%	1/4W
R355A	1-216-085-00	METAL CHIP	33K	5%	1/10W
R355B	1-216-085-00	METAL CHIP	33K	5%	1/10W
R356A	1-216-085-00	METAL CHIP	33K	5%	1/10W
R356B	1-216-085-00	METAL CHIP	33K	5%	1/10W
R357A	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R357B	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R358A	1-216-041-11	METAL CHIP	470	5%	1/10W
R358B	1-216-041-11	METAL CHIP	470	5%	1/10W
R450A	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R450B	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R501A	1-216-081-00	METAL CHIP	22K	5%	1/10W
R501B	1-216-081-00	METAL CHIP	22K	5%	1/10W
R502A	1-216-081-00	METAL CHIP	22K	5%	1/10W
R502B	1-216-230-00	METAL CHIP	22K	5%	1/8W
R503A	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R503B	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R504A	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R504B	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R505A	1-249-441-11	CARBON	100K	5%	1/4W
R505B	1-249-441-11	CARBON	100K	5%	1/4W
R506A	1-216-039-00	METAL CHIP	390	5%	1/10W
R506B	1-216-039-00	METAL CHIP	390	5%	1/10W
R507A	1-216-039-00	METAL CHIP	390	5%	1/10W
R507B	1-216-039-00	METAL CHIP	390	5%	1/10W
R508A	1-249-385-11	CARBON	2.2	5%	1/6W
R508B	1-249-385-11	CARBON	2.2	5%	1/6W
R509A	1-249-385-11	CARBON	2.2	5%	1/6W
R509B	1-249-385-11	CARBON	2.2	5%	1/6W
R510A	1-249-385-11	CARBON	2.2	5%	1/6W
R510B	1-249-385-11	CARBON	2.2	5%	1/6W
R511A	1-249-385-11	CARBON	2.2	5%	1/6W
R511B	1-249-385-11	CARBON	2.2	5%	1/6W
R550A	1-216-071-00	METAL CHIP	8.2K	5%	1/10W
R550B	1-216-077-00	METAL CHIP	15K	5%	1/10W
R551A	1-216-077-00	METAL CHIP	15K	5%	1/10W
R551B	1-216-071-00	METAL CHIP	8.2K	5%	1/10W

< SWITCH >

SW001	1-571-275-31	SWITCH, SLIDE (POWER SELECT)

< THERMISTOR >

TH601	1-809-842-11	THERMISTOR PTH8L07AR2R0M1B553

< VARIABLE RESISTOR >

VR350	1-223-383-11	RES, VAR 10K (LEVEL)

Ref. No.	Part No.	Description	Remark

< CRYSTAL >

XT001	1-577-102-11	VIBRATOR, CERAMIC (6MHz)
XT002	1-579-935-11	VIBRATOR, CRYSTAL (32kHz)

****

MISCELLANEOUS
****

9	1-466-952-11	REMOTE COMMANDER (XMC-U150)
10	1-532-433-11	FUSE, GLAS TUBE (1A)
11	1-532-678-11	FUSE, GLAS TUBE (12A)
J05	1-751-143-11	CORD, CONNECTION (SP) (HIGH LEVEL INPUT)
J901	1-751-145-21	CORD (WITH CONNECTOR) (POWER)
J902	1-751-144-11	CORD (WITH CONNECTOR) (SP) (SPEAKER OUT)
IC501A	8-759-039-68	IC TA8210AH
IC501B	8-759-039-68	IC TA8210AH

****

ACCESSORIES & PACKING MATERIALS
****

3-378-208-01	HOLDER (DISPLAY) (US, Canadian)
3-756-509-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, ITALIAN) (AEP)
3-756-509-21	MANUAL, INSTRUCTION (ENGLISH, FRENCH) (US, Canadian)
3-756-509-41	MANUAL, INSTRUCTION (SPANISH, DUTCH, SWEDISH, PORTUGUESE) (AEP)
3-756-509-51	MANUAL, INSTRUCTION (ENGLISH, SPANISH, CHINESE) (E)
3-756-510-11	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH, GERMAN, ITALIAN) (AEP)
3-756-510-21	MANUAL, INSTRUCTION, INSTALL (ENGLISH, FRENCH) (US, Canadian)
3-756-510-41	MANUAL, INSTRUCTION, INSTALL (SPANISH, DUTCH, SWEDISH, PORTUGUESE) (AEP)
3-756-510-51	MANUAL, INSTRUCTION, INSTALL (ENGLISH, SPANISH, CHINESE) (E)

****

****
HARDWARE LIST
****

#1	7-682-550-04	SCREW +P 3X12
#2	7-682-547-09	SCREW +PTT 3X6 (S)
#3	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S

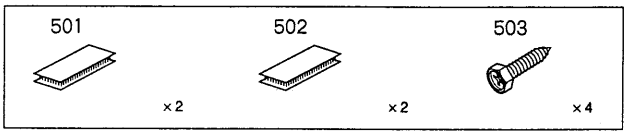
****

Ref. No.	Part No.	Description	Remark

MOUNTING HARDWARE

****

* 501	3-365-669-01	TAPE (MALE)	
* 502	3-365-670-01	TAPE (FEMALE)	
503	7-685-162-11	SCREW +P 4X14 TYPE2 NON-SLIT	



9-957-638-11

Sony Corporation
Mobile Electronics Group

English
93A0277-1
Printed in Japan
©1993.1
Published by Audio Corporate Planning Group